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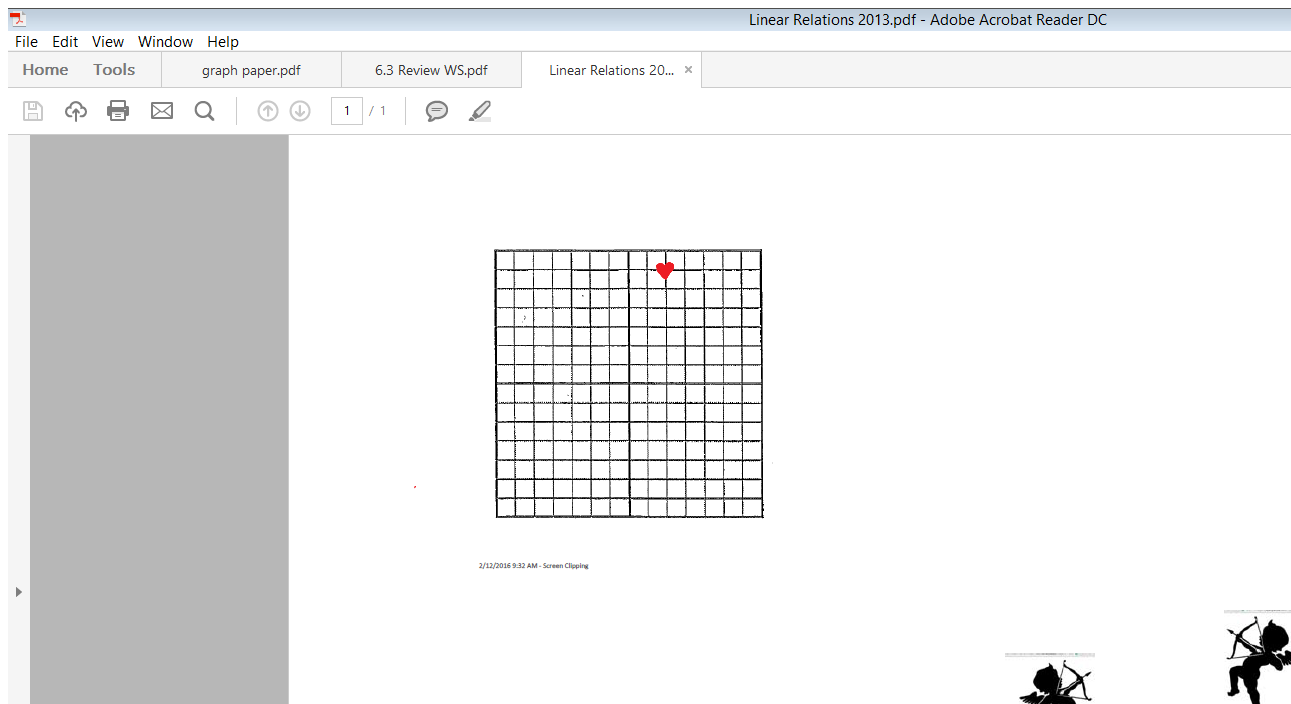
Taking Aim – a linear graphing activity

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1. **Cupid has fired off 4 arrows, each following a different, straight path.**

ARROW 1 ARROW 2 ARROW 3 ARROW 4

y = 2x - 2 y = - 2x+2 y = - 2x – 2 y = 2x+2



**1a. Which arrow(s) will pass through the heart?**

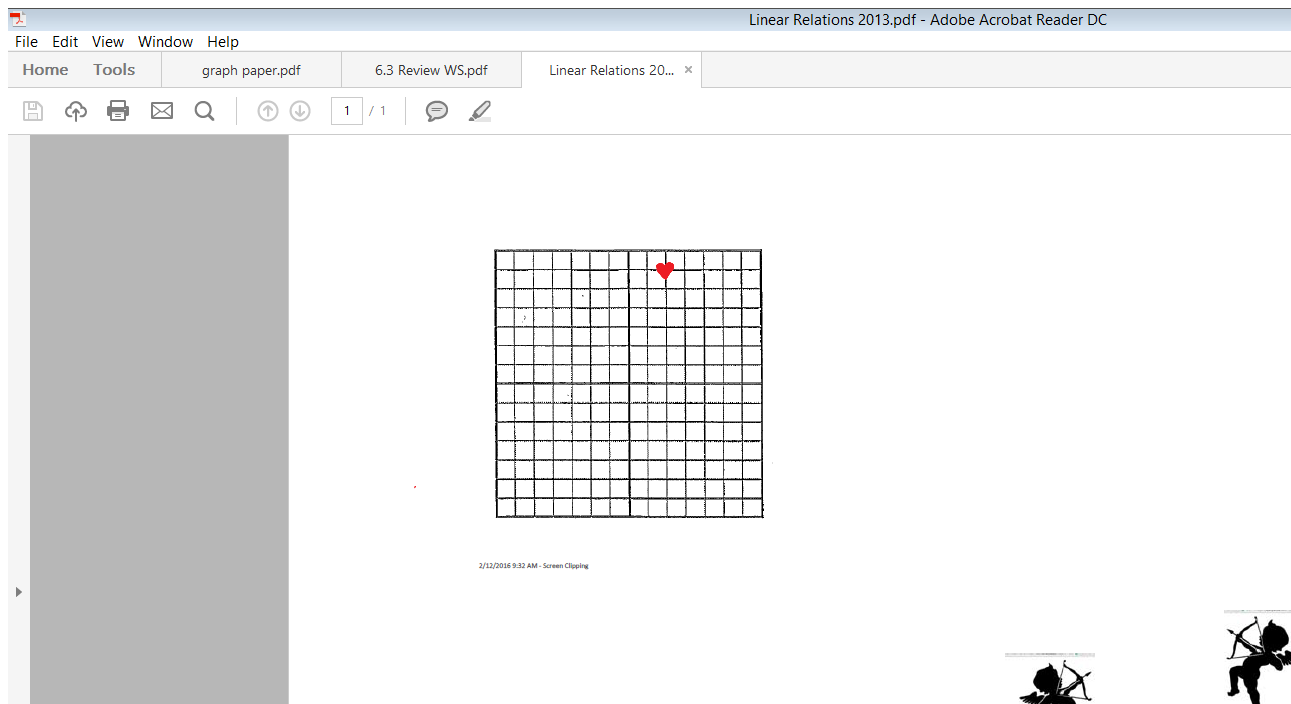
**1b. Explain your reasoning and/or method.**

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1. **Cupid fires a 5th arrow which passes through the following coordinates.**

****

|  |  |
| --- | --- |
| **x** | **y** |
| -1 | -3 |
| 0 | 0 |
| 1 | 3 |
| 2 | 6 |

**2a. Sketch the linear path of the 5th arrow on the graph above.**

**2b. Write a linear equation that represents the path of the 5th arrow.**

**2c. Explain your reasoning and/or method.**

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